Attorney's Docket No.: 00246-260001 / 1803



Applicant: LaBaer et al. Art Unit: 1634
Serial No.: 10/055,432
Examiner: B. Forman

Filed: January 22, 2002

Title : NUCLEIC-ACID PROGRAMMABLE PROTEIN ARRAYS

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

## SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Copies of the references listed on the attached form PTO-1449 are enclosed. The PTO-1449 includes references cited in a communication (copy enclosed) from a foreign patent office in a counterpart application PCT/US02/01882.

This statement is being filed before the receipt of a first Office action on the merits. Please apply any other charges or credits to Deposit Account No. 06-1050, referencing attorney docket number 00246-260001.

Respectfully submitted,

Date: 2/MY)03

Louis Myers Reg. No. 35,965

Fish & Richardson P.C. 225 Franklin Street Boston, MA 02110-2804 Telephone: (617) 542-5070 Facsimile: (617) 542-8906

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#### CERTIFICATE OF MAILING BY FIRST CLASS MAIL

I hereby certify under 37 CFR §1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated below and is addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Date of Deposit

Cassandia Bugst

Signature

Cassandia Rought

Typed or Printed Name of Person Signing Certificate

MAY 2 7 2003 Substitute Form PTO-149 (Modified) Information Disclosure Statement

(37 CFR §1.98(b))

U.S. epartment of Commerce Facent and Trademark Office

Attorney's Docket No. 00246-260001

Application No. 10/055,432

by Applicant

Applicant LaBaer et al.

(Use several sheets if necessary)

Filing Date January 22, 2002

Group Art Unit 1634

			U.S. Pate	ent Documents			
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	CA	5,445,934	08/29/95	Fodor et al.			пирргорпате
	СВ	5,641,641	06/24/97	Wood			
	CC	5,874,564	02/23/99	Ecker et al.			
	CD	5,922,617	07/13/99	Wang et al.			
	CE	6,511,803 B1	01/28/03	Church et al.			
	CF						
	CG						
	СН				1		
	CI				1		
	CJ						
	CK						

Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Trans	slation
	CL	WO 90/05785	05/31/90	WIPO	Class	Subclass	Yes	No
	СМ					<u> </u>		ļ
	CN							
	СО				-			
	СР							

Other Documents (include Author, Title, Date, and Place of Publication)						
Examiner	Desig.	oduments (medude Author, Title, Date, and Place of Publication)				
Initial	ID	Document				
	CO	Bocument				
	CQ					
	CR					
	CS					
	~~					
	CT					

Examiner Signature	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if no next communication to applicant.	ot in conformance and not considered. Include copy of this form with

### PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY P. LOUIS MEYERS FISH & RICHARDSON P.C. 225 FRANKLIN STREET NOTIFICATION OF TRANSMITTAL OF BOSTON, MASSACHUSETTS 02110-2804 THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION JUN 0 5 2002 (PCT Rule 44.1) FISH & RICHARDSON, P.C BOSTON OFFICE Date of Mailing (day/month/year) Applicant's or agent's file reference See paragraphs 1 and 4 below FOR FURTHER ! 00246-260WO1 International filing International application No. (day/month/year) \*\RY 2002 PCT/US02/01882 Applicant PRESIDENT AND FELLOWS OF HARVARD COLLEGE The applicant is hereby notified that the international search report has been established and is transmitted herewith. 1. X Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46): When? The time limit for filing such amendments is normally two months from the date of transmittal of the international search report. Where? Directly to the International Bureau of WIPO, 34 chemin des Condenses ed By Practice Sys 1211 Geneva 20, Switzerland, Facsimile No.: (41-22) 740.14 For more detailed instructions, see the notes on the accompanying sheet The applicant is hereby notified that no international search report will be established any the declaration unde Article 17(2)(a) to that effect is transmitted herewith. With regard to the protest against payment of (an) additional fee(s) under Rule 40 22 the applicant is notified that: the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices. no decision has been made yet on the protest; the applicant will be notified as soon as a decision is medicated D95 (14.78) 4. Reminders Shortly after 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application or of the priority claim must reach the International Bureau as provided in rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication. Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise the applicant must, within 20 months from the priority date, perform the presecribed acts for entry into the national phase before those designated Offices. In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months. See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicants's Guide, Volume II, National Chapters and the WIPO Internet site. Authorized officer Name and mailing address of the ISA/US Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231

bne NV

Telep

(703) 308-0196

Facsimile No. (703) 305-3230 Form PCT/ISA/220 (April 2002)\*

(See notes on accompanying sheet)

## PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To: P. LOUIS MEYERS FISH & RICHARDSON P.C.	PCT		
925 FRANKLIN STREET BOSTON, MASSACHUSETTS 02110-2804	NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION		
	(PCT Rule 44.1)		
	Date of Mailing (day/month/year) 3 1 MAY 2002		
Applicant's or agent's file reference	FOR FURTHER ACTION See paragraphs 1 and 4 below		
00246-260WO1	1 (1) - 1 (1)		
International application No.	International filing date (day/month/year)		
PCT/US02/01882	22 JANUARY 2002		
PRESIDENT AND FELLOWS OF HARVARD COLLEG			
Filing of amendments and statement under Ar The applicant is entitled, if he so wishes, to ame	onal search report has been established and is transmitted herewith.  rticle 19: and the claims of the international application (see Rule 46):  dments is normally two months from the date of transmittal of the		
international search report.			
Where? Directly to the International Bureau of 1211 Geneva 20, Switzerland, Facs	of WIPO, 34 chemin des Colombettes simile No.: (41-22) 740.14.35		
For more detailed instructions, see the notes			
2. The applicant is hereby notified that no internation Article 17(2)(a) to that effect is transmitted here	ional search report will be established and that the declaration under with.		
ومرطو مرزي المراجع الم	(an) additional fee(s) under Rule 40.2, the applicant is notified that: eon has been transmitted to the International Bureau together with the f both the protest and the decision thereon to the designated Offices.		
no decision has been made yet on the pro	otest; the applicant will be notified as soon as a decision is made.		
applicant wishes to avoid or postpone publication, a notion must reach the International Bureau as provided in rules preparations for international publication.	rnational application will be published by the International Bureau. If the ice of withdrawal of the international application, or of the priority claim, s 90bis.1 and 90bis.3, respectively, before the completion of the technical		
Within 19 months from the priority date, but only in re examination must be filed if the applicant wishes to pos date (in some Offices even later); otherwise the applican acts for entry into the national phase before those design	espect of some designated Offices, a demand for international preliminary stpone the entry into the national phase until 30 months from the priority at must, within 20 months from the priority date, perform the presecribed gnated Offices.		
In respect of other designated Offices, the time limit of 3	0 months (or later) will apply even if no demand is filed within 19 months.		
See the Annex to Form PCT/IB/301 and, for details ab Guide, Volume II, National Chapters and the WIPO In	sout the applicable time limits, Office by Office, see the PCT Applicants's iternet site.		
	Authorized officer		
Name and mailing address of the ISA/US  Commissioner of Patents and Trademarks	ARUNICHAKRABAR SI		
Commissioner of Patents and Tradellas as Box PCT Washington, D.C. 20231	Charles 131mg		
Facsimile No. (703) 305-3230	Telephone No. (708) 308-0196		
Form PCT/ISA/220 (April 2002)*	(See notes on accompanying shee		

### PATENT COOPERATION TREATY

# **PCT**

#### INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

00246-260WO1 ACTION (Form PCT/ISA/220) as well as, below.			Transmittal of International Search Report 120) as well as, where applicable, item 5
International application No.	International filing dat	te (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/US02/01882	22 JANUARY 2002		23 JANUARY 2001
Applicant PRESIDENT AND FELLOWS OF H	HARVARD COLLEGE		
This international search report has be according to Article 18. A copy is being the This international search report consists.	ng transmitted to the Inte	ernational Bureau.	thority and is transmitted to the applicant
X It is also accompanied by a			report.
language in which it was filed the international search we Authority (Rule 23.1(b)).  b. With regard to any nucleotide was carried out on the basis of contained in the internation filed together with the internation furnished subsequently to the statement that the subthe	d, unless otherwise indicate as carried out on the basis and/or amino acid sequence of the sequence listing: onal application in written application in a this Authority in written this Authority in compute osequently furnished written action recorded in compute dunsearchable (See Box Ling (See Box II).	d under this item.  of a translation of the of a translation of the order disclosed in the inform.  computer readable form.  or readable form.  ten sequence listing of the order readable form is idea.	basis of the international application in the he international application furnished to the international application, the international seaform.  does not go beyond the disclosure in entical to the written sequence listing has been
5. With regard to the abstract,  X the text is approved as su  the text has been establish Box III. The applicant ma search report, submit con	hed, according to Rule 38 y, within one month from	.2(b), by this Author the date of mailing o	rity as it appears in of this international
6. The figure of the drawings to be	published with the abstr	act is Figure No	<del></del>
as suggested by the appli	cant.		X None of the figure
because the applicant fail	ed to suggest a figure.		
because this figure better	characterizes the invent	ion.	

#### INTERNATIONAL SEARCH REPORT

International application No.
PCT/US02/01882

	A. CLASSIFICATION OF SUBJECT MATTER					
IPC(7) :G01N 33/538 US CL :436/518						
	DS SEARCHED	national classification and IPC				
	ocumentation searched (classification system followed	by classification symbols)				
	36/518; <b>4</b> 35/6					
Documentat	ion searched other than minimum documentation to	the extent that such documents are in	ncluded in the fields			
searched						
Electronic d	ata base consulted during the international search (na	me of data base and, where practicable	e, search terms used)			
	TN, MEDLINE, BIOSIS, CAPLUS, EMBASE ms: protei, interaction, array, microarray, nucleic, tran	nslation, activate				
C. DOC	UMENTS CONSIDERED TO BE RELEVANT					
Category*	Citation of document, with indication, where app	propriate, of the relevant passages	Relevant to claim No.			
Y	US 5,922,617 A (WANG et al) 13 July	1999, see entire document.	1-11			
Y	US 5,445,934 A (FODOR et al) 29 August 1995, see entire document.					
Y	US 5,641,641 A (WOOD) 24 June 199	1-11				
Y	US 5,874,564 A (ECKER et al.) 23 February 1999, see entire document.					
Y	WO 90/05785 A1 (THE REGENTS (CALIFORNIA) 31 May 1990, see enti	1-11				
Further documents are listed in the continuation of Box C. See patent family annex.						
Special categories of cited documents:  "I"  later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention						
"E" e	to be of particular relevance  "K"  document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive steep that the particular relevance is taken along.					
"Y"  document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  when the document is taken above  document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined						
t	than the priority date claimed					
Date of the actual completion of the international search  O6 MAY 2002  Date of mailing of the international search report  3 1 MAY 2002						
Name and mailing address of the ISA/US Commissioner of Patents and Trademarks Box PCT  Address  Addres						
	Washington, D.C. 20231  Faccimile No. (703) 305-3930  Telephone No. (703) 308-0196					

#### NOTES TO FORM PCT/ISA/220 (continued)

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- 1. [Where originally there were 48 claims and after amendment of some claims there are 51]:
  "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers;
  claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]:
   "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
   "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or

"Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."

4. [Where various kinds of amendments are made]:
"Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

#### "Statement under Article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

The statement should be brief, it should not exceed 500 words if in English or if translated into English:

It should not be confounded with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It should not contain any disparaging comments on the international search report or the relevance of citations contained in the report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

#### In what language?

The amendments must be made in the language in which the international application is published. The letter and any statement accompanying the amendments must be in the same language as the international application if that language is English or French; otherwise, it must be in English or French, at the choice of the applicant.

### Consequence if a demand for international preliminary examination has already been filed?

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

### Consequence with regard to translation of the international application for entry into the national phase?

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

#### NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under Article 19. The Notes are based on the requirements of the Patent Cooperation Treaty and of the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule" and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

## INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, international application and drawings) may be amended during the international preliminary examination procedure, there is usually ocscription and drawings) may be amended during the international preliminary examination protectine, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

## What parts of the international application may be amended?

The claims only.

The description and the drawings may only be amended during international preliminary examination under Chapter IL

When? Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the analytical sizes limit but before the completion of the technical applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

### Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How? Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A seplecement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

## What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confounded with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate; in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new:
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.